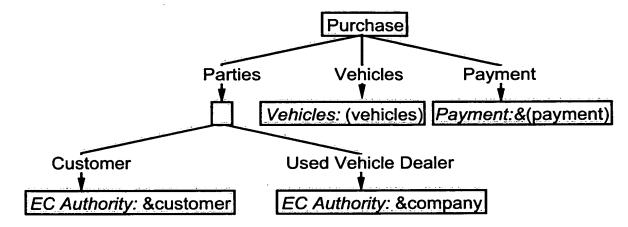
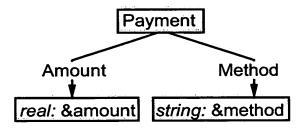
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a) The Purchase Contract Class



b) The payment class

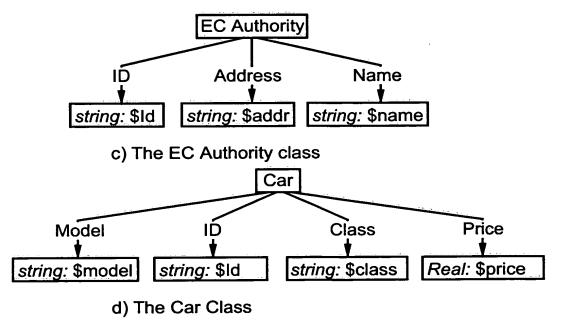
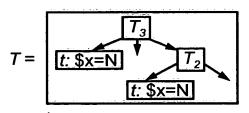


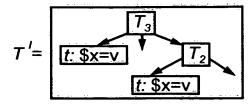
Fig. 1 Examples of classes

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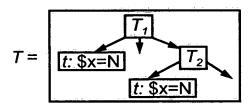


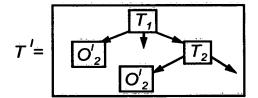
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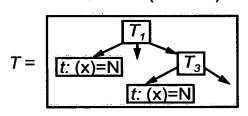


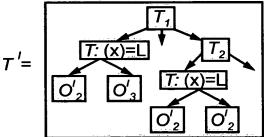
(a) T is tree resulting from the assignment of the atomic value v to atomic variable Sx in T



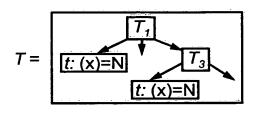


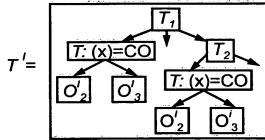
(b) T' is tree resulting from the assignment of the instance O'_2 of type t' to the class variable Sx in T_1 . In T' the root of O'_2 is labeled with the variable (t: Sx = t')





(c) T is tree resulting from the assignment of the list of instances (O'_2, O'_3) to the class list variable(x) in T.

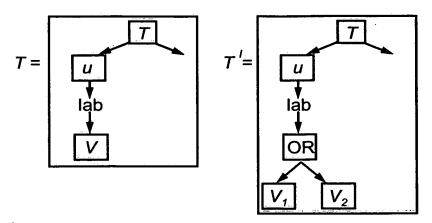




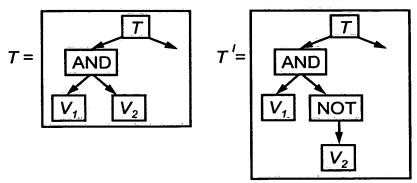
(d) T' is tree resulting from the definition of the list containment constraint (x) (O'_2, O'_2) in T.

Fig. 2 Variable instantiations

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(a) T' is the result of adding an OR vertex to T - Note that V_1 and V_2 must be isomorphic to V up to renaming of variables. Adding an AND vertex is done in a similar way.



(b) T is the result of adding a NOT vertex to T - Note that NOT vertices can be added only subtrees rooted at an AND vertex

Fig. 3 Adding operator vertices

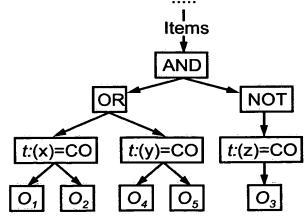
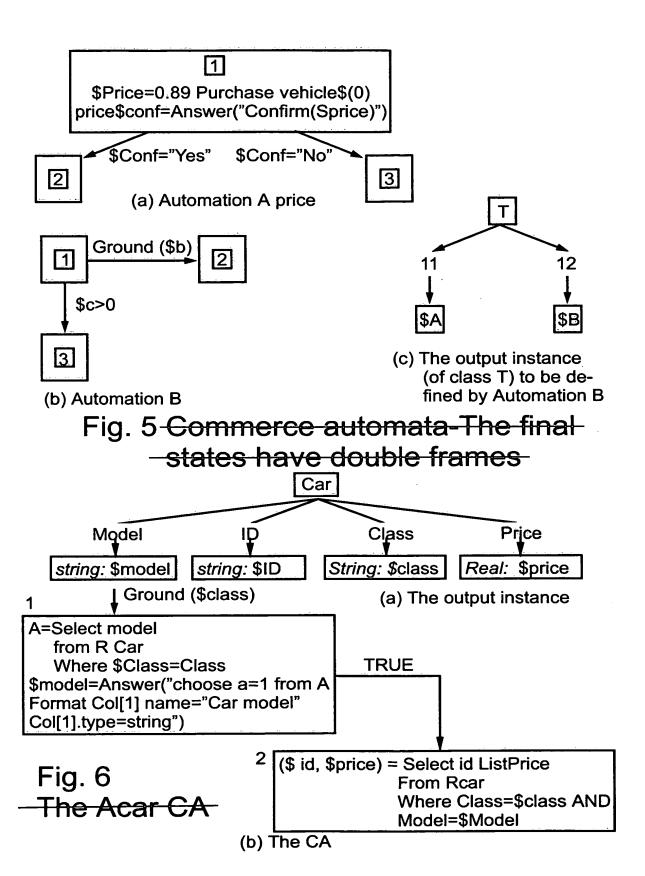


Fig. 4 Using operator vertices

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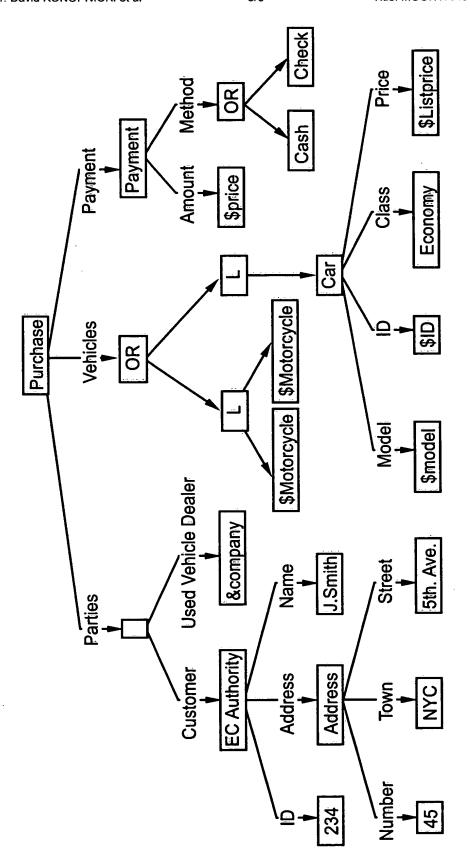


Fig. 7 The customer's intention tree-

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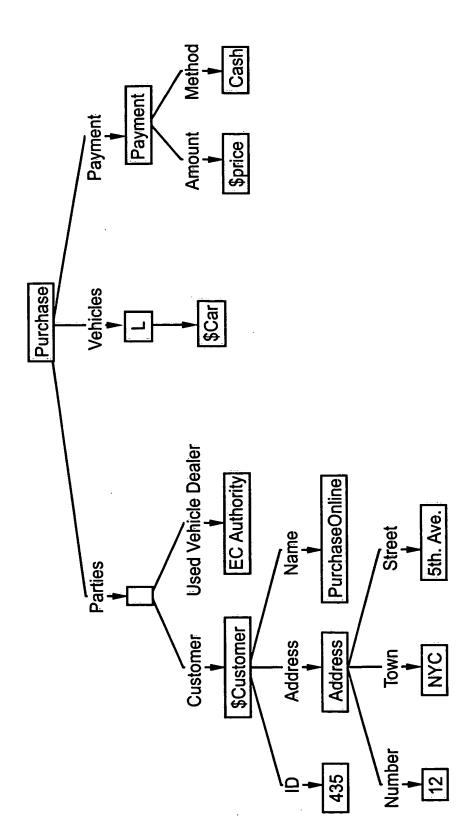
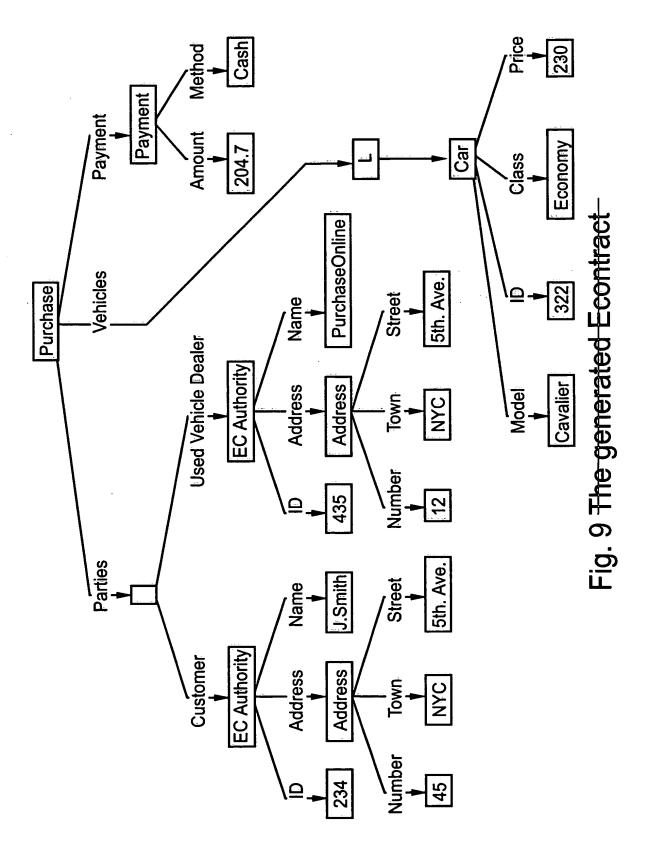


Fig. 8 The used car dealer's intention tree-



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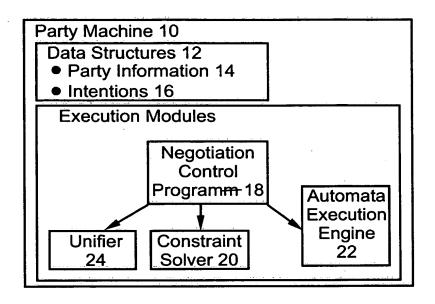


Fig. 10 Party Architecture

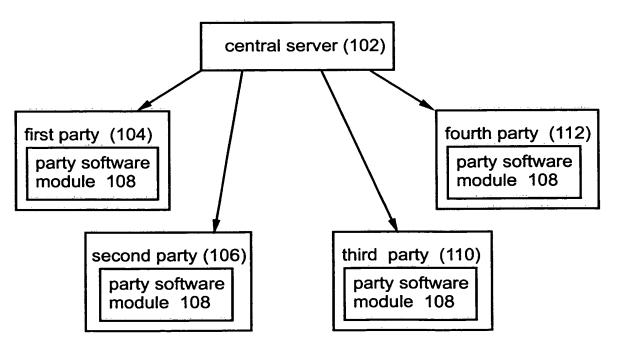


Fig. 11